

Executive Summary

Through December 31, 2017 over \$70.5M, 6.6% of the \$1.065B in authorized bond funding, has been expended on project planning and construction, across 17 UNC campuses. ASU's Health Sciences Building is now approximately 58% complete while WCU's utility extension in support of their STEM building is nearing completion. WSSU is now under construction contract and mobilizing for construction on their Sciences Building. Both NCSU's Engineering Oval and UNCG's Nursing Instructional projects have approved construction contract awards with contracts being executed.

Design progress is also continuing. As projects clear the schematic design stage new baseline schedules are established, reflecting the more robust information available from project designers and Construction Manager at Risk firms now involved in planning. Campuses for which new baselines have been established are identified in bold in the chart below which summarizes project progress-to-date.

UNC Project Status – At-a-Glance

Campus/Project	Advance Planning	Full Service Design Contract	Schematic Design (SDs)	Design Development Documents (DDs)	Construction Documents (CDs)	Under Construction (any phase)	Completion Date (P-Projected, A-Actual)
ASU	✓	✓	✓	✓	✓	✓	8/10/2018P
ECU	✓	✓	✓				10/29/2021P
ECSU	✓	✓					3/6/2020P
FSU	✓	✓	✓				8/22/2019P
NCA&T	✓	✓	✓				2/22/2021P
NCCU							3/22/2022P
NCSU-Engr	✓	✓	✓	✓	✓	✓	7/9/2020P
NCSU-Plant Sci	✓		✓				2/11/2022P
NCSU-CC Utility	N/A	✓	Combined	✓	✓		4/22/2020P
UNCA	✓	✓	✓				7/17/2020P
UNC-CH-Med Ed	✓	✓	✓				8/30/2022P
UNC-CH-Vivarium	N/A	✓	N/A	N/A			3/22/2019P
UNCC	✓	✓	✓				12/26/2020P
UNCG	✓	✓	✓	✓	✓	✓	5/1/2020P
UNCP							12/11/2020P
UNCSA-Old Lib	✓	✓	✓	✓			8/19/2019P
UNCSA-Perf Place	✓	✓	✓	✓			7/15/2019P
UNCW	✓	✓	Combined	✓			3/26/2020P
WCU	✓	✓	✓	✓	✓	✓	12/28/2017P
WSSU	✓	✓	✓	✓	✓	✓	11/25/2019P
NCSSM	✓						5/7/2021P

Details on each project's funding, cash flow, and progress follow below. Questions on the report may be directed to Will Johnson, Associate Vice President for Finance and Capital Planning, UNC General Administration, 140 Friday Center Drive, Chapel Hill, NC 27517, or via e-mail to wjohnson@northcarolina.edu, or phone 919-962-4611.

Understanding the Report

The following notes are provided as an aid to reading and understanding the project details provided from the Interscope system.

SCO ID# - Separate identifying numbers are shown for each contract applicable to a project. This includes contracts with the project's designer of record whose work will result in the new building or renovation, firms who perform special inspection or commissioning services, and the contractors who will ultimately construct the project. In the interest of transparency, all contracts are listed. This will result in a lengthening list over the life of reporting on the bond projects. Additional SCO ID#s, reflecting separate designer submissions for review (such as an early site package), under a single design contract are not listed individually.

Additional funding/Additional projects – In some cases, additional funding is contributed to the bond project which may either aid in addressing the defined scope of the project or provide for a related, supporting project, such as parking or infrastructure, which is incorporated for more cost effective and efficient project management and construction coordination. Separate funding sources and amounts are identified, as are separate projects where applicable. Only projects which include bond funding in any amount are reported. These additional funding amounts may change as plans develop.

Schedule/Cash Flow – Schedule and cash flow are updated monthly and reported quarterly. Schedules, along with their related cash flows, were established early in 2016 and set as a "baseline" effective July 1, 2016 to designate the starting line for the program. Dates for this initial schedule are listed under the schedule column heading "Original," while the latest schedule is reflected under the "Revised" column.

Schedules are updated based on information obtained throughout the design and construction process. A new baseline project schedule is established for each project as it reaches the stage where schematic design documents are approved, as information from designers and CM at Risk firms informs project planning, affecting both schedule and cash flow. The "Original" column heading is updated to read "Baseline Schedule – Date" for projects which have reached this milestone. New baseline schedules will not be established for ASU, whose project is already under construction, or WSSU, whose project is already past this design stage. WSSU's project was designed previously, but held for construction funding and so subject to redesign.

Because cash flow is related to project activity, the expected flow of expenditures adjusts as schedules change. The column headings regarding cash flow ("Original Cash Flow Estimate" and "Current Cash Flow Estimate") are the cash flow counterparts for the "Original" and "Revised" schedule column headings. These cash flow headings are also updated to reflect the establishment of new baselines ("Baseline Cash Flow Estimate (New Baseline effective date)" and "Revised") as appropriate. To maintain focus on the bond activity, project schedule information is provided only for projects involving bond funding.

Design Contract Type/Status – There are a number of design activities required in the life of a project denoted by different design contract types. For example, "Letter Agreement (Sustainable Energy Programming)" describes the design work to address compliance with G.S. 143-135.35-40 requiring energy cost analysis as part of the programming and advance planning submittals, while "Standard Design Contract" identifies the agreement under which the full design for the project will be prepared. Additional contracts for commissioning, geotechnical services, and special inspections may be shown as appropriate. Status indicates if the contract has been executed and is in force ("Active") or in some stage of preparation and execution ("Creating" or "Creating-Not Signed").

Construction Start (Notice to Proceed) – Notice to proceed is a written notification to the contractor from the designer, that specifies the start date under a construction contract. This is the date on which the contractor may take charge of the site and begin mobilizing, including setting up any construction trailer(s) and fencing. The number of days the contract calls for to completion of the project are added to this starting date to calculate the contract completion date.

Estimated Completion (Contract Completion) – Because there is no contract completion date until a contract is in place, an estimated completion date is included in this report, based on the expected occupancy of the project as reflected in campus project schedules, until such time as a construction contract is executed. Once a contract is in place, the projected completion date, per the contract documents, is reported. Should weather delays or other changes affect the contractual completion date, it is updated with the current date being reported each quarter.

Final Acceptance – The State Construction Office performs a final inspection and accepts the project on behalf of the State of North Carolina, once any final discrepancies (punch list items) have been addressed by the contractor.

Final Approval – Last Step of Closeout Process – A project may not be truly completed until related documentation is on file. This includes items such as the field marked-up drawings from the contractor reflecting the actual installed conditions, in addition to the final electronic drawings of the designer, all maintenance and operating manuals, and designer certifications that the project was executed as designed. SCO's approval of this final report is the basis for reporting of this milestone. Post-occupancy energy evaluations under G.S. 143-135.37 require an assessment of energy and water usage performance after a year of operation and final closing of the project in its entirety does not occur until those assessments are completed.

For greater understanding, additional information regarding design and construction processes and procedures may be obtained from the State Construction Office manual at <https://ncadmin.nc.gov/document/construction-manual>.

Agency	Program	Authorization	Bond Funding	Bond % of Total Funds
Appalachian State University	[41330-301] - Health Sciences Building - Advance Planning*	46630-301	70,000,000	88
East Carolina University	2016 Connect NC Bond - Life Sciences and Biotechnology Building	46636-301	90,000,000	95
Elizabeth City State University	2016 Connect NC Bond - Moore Hall Building Renovation and G.R. Little Library Building Renovation	46633-301	13,000,000	100
Fayetteville State University	2016 Connect NC Bond - Lyons Science Building Renovation	46634-301	10,000,000	100
NC A & T State University	2016 Connect NC Bond - Engineering Building	46637-301	90,000,000	100
NC Central University	2016 Connect NC Bond - Business School	46635-301	30,000,000	100
NC School of Science & Math	2016 Connect NC Bond - N.C. School of Technology and Engineering	46619-301	58,000,000	100
NC State University	Engineering Building Oval and Campus Infrastructure*	46624-301	75,000,000	56
NC State University	Plant Sciences Building*	46624-302	85,000,000	53
UNC Asheville	2016 Connect NC Bond - Owen and Carmichael Hall	46627-301	21,100,000	100
UNC Chapel Hill	2016 Connect NC Bond - Medical Education Building Replacement	46623-301	68,000,000	61
UNC Charlotte	2016 Connect NC Bond - Sciences Building	46626-301	90,000,000	89
UNC Greensboro	2016 Connect NC Bond - Nursing and Instructional Building	46625-301	105,000,000	100
UNC Pembroke	2016 Connect NC Bond - Business School	46631-301	23,000,000	100
UNC School of the Arts	2016 Connect NC Bond - Old Library Renovation	46638-301	8,000,000	100

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Quarterly Connect NC Bond Report
January 1, 2018

Agency	Program	Authorization	Bond Funding	Bond % of Total Funds
UNC School of the Arts	2016 Connect NC Bond - Performance Place Renovation	46638-302	2,900,000	37
UNC Wilmington	2016 Connect NC Bond - Allied Health/Human Services/Nursing Building	46628-301	66,000,000	100
Western Carolina	2016 Connect NC Bond - Science/STEM Building	46629-301	110,000,000	100
Winston-Salem State University	[40732-301] - Science and General Office Building*	46632-301	50,000,000	94
TOTAL	20 Program(s)		1,065,000,00	

*These items are titled differently because they were initiated under separate capital authorizations prior to the passage of the bond.

Total Cash flow for all Authorizations:

Bond Funds Cash Flow	Original Cash Flow Estimate	Current Cash Flow Estimate	Actual Cash Flow through 12/31/2017
2016-2017	72,967,014	23,333,542	23,333,542
2017-2018	144,213,154	116,276,154	47,193,433
2018-2019	293,594,199	239,812,315	0
2019-2020	355,437,806	355,634,877	0
2020-2021	190,647,936	283,345,173	0
2021-2022	7,823,814	46,243,570	0
2022-2023	316,077	354,369	0
2023-2024	0	0	0
	1,065,000,000	1,065,000,000	70,526,974

Department: Educational Institutions (Universities)

Agency: Appalachian State University

Program Name: [41330-301] – Health Sciences Building – Advance Planning

Program ID: 11770

Fund Source	Authorization	Allocation
General Fund	41330-301	5,000,000
Non-General Fund	46730-301	5,000,000
State Debt	46630-301	70,000,000
Total		80,000,000

Bond Funds Cash Flow	Original Cash Flow Estimate	Current Cash Flow Estimate	Actual Cash Flow through 12/31/2017
2016-2017	34,397,692	14,363,387	14,363,387
2017-2018	33,382,873	48,995,966	27,320,688
2018-2019	2,219,435	6,630,647	0
2019-2020	0	10,000	0
2020-2021	0	0	0
2021-2022	0	0	0
2022-2023	0	0	0
2023-2024	0	0	0
	70,000,000	70,000,000	41,684,075

Project ID: 10604

Name: College of Health Sciences Complex

Description: Increasing statewide demand for health professionals to serve an aging population has led to a growing need for degree-granting programs in Nursing and Allied Health professions in western North Carolina. In keeping with the goal of educating more health care professionals through inter-professional education, this project will provide a 203,000 square-foot facility for the academic and service outreach programs in the Beaver College of Health Sciences, which is the second largest and fastest growing college at Appalachian. This facility will be home to new and the existing 14 undergraduate and graduate degree granting programs in areas including Nursing, Nutrition and Dietetics, Public Health Promotion, Social Work, Communication Sciences and Disorders, Health Care Management, Exercise Science and Athletic Training. In addition, the

building will house the Blue Cross Blue Shield of NC Institute for Health and Human Services and the Physician Assistant Program -- an innovative partnership with Appalachian State University and the Wake Forest School of Medicine. This building, will greatly expand the volume and quality of facilities available for education, research, and public service for the University. The new space will enable the University to meet the enrollment growth demands of its fastest growing college and free up badly needed space in the center of campus to support other growing academic programs.

SCO ID#: 13-10604-01A

Package: College of Health Sciences Adv Planning

Description: Owner needs the services of an Architect for providing Advance Planning to include Sustainable Energy Programming services for the new College of Health Sciences Complex

Package Status: Review Only

Design Contract Type: Letter Agreement (Sustainable Energy Programming) Status: Complete

SCO ID#: 13-10604-02 and 02A

Package: College of Health Sciences **CMR Contract**

Description: 203,000 SF College of Health Sciences Building for the College of Health Sciences Complex

Package Status: Under Construction 58% Complete

Design Contract Type: Standard Design Contract (Fully Funded) Status: Active

SCO ID#: 13-10604-02C CM at Risk Preconstruction Services

SCO ID#: 13-10604-03 Commissioning

Project Milestone	Original Schedule	Revised Schedule	Actual
Schematic Design Approved by SCO (Final Approval)	Activities	occurred	
Design Development Approved by SCO (Final Approval)	prior to	passage	9/2/2015
Construction Documents Approved by SCO (Final Approval)	and baselining	of bond	4/29/2016
Final Documents Approved by SCO (Final Approval)	program	schedules	6/28/2016
Approved for Bid			6/28/2016
Construction Start (Notice to Proceed)			7/15/2016
Estimated Completion (Contract Completion)	7/15/2018	8/10/2018	
Final Acceptance	10/1/2018	9/26/2018	
Final Approval - Last step of Closeout process	10/11/2019	10/8/2019	

Department: Educational Institutions (Universities)

Agency: East Carolina University

Program Name: 2016 Connect NC Bond – Life Sciences and Biotechnology Building

Program ID: 12518

Fund Source	Authorization	Allocation
Non-General Fund	46736-301	5,050,000
State Debt	46636-301	90,000,000
Total		95,050,000

Bond Funds Cash Flow	Baseline Cash Flow Estimate (New Baseline effective 12/1/2017)	Current Cash Flow Estimate	Actual Cash Flow through 12/31/2017
2016-2017	358,052	358,052	358,052
2017-2018	6,341,100	6,341,100	1,337,504
2018-2019	2,629,545	2,629,545	0
2019-2020	17,044,298	17,044,298	0
2020-2021	60,291,358	60,291,358	0
2021-2022	3,330,349	3,330,349	0
2022-2023	5,298	5,298	0
2023-2024	0	0	0
	90,000,000	90,000,000	1,695,556

Project ID: 14389

Name: Life Sciences and Biotechnology Building

Description: The ECU Life Sciences and Biotechnology Building will house interdisciplinary programs that involve external partners, faculty, and students in the fields of biology, chemistry, and biomedical/process engineering. The building will be located in ECU's Millennial designated area on 10th Street. The project will construct state-of-the-art classrooms, laboratories, offices, and support spaces that will provide for a more direct interface between the University community and regional partners. This new science facility will provide the state-of-the-art science facilities needed to attract top-quality faculty in applied research; increase student access to modern science education; and facilitate the application, translation, and communication of scientific research and scholarship to broader audiences. This building will create opportunities for partnerships and discovery with our local industry partners; provide for research programs that will be globally competitive; and produce higher-skilled graduates that will be able to compete successfully in the global workplace.

SCO ID#: 16-14389-01A

Package: Life Sciences and Biotechnology Building (ADV)

Description: Owner needs the services of an Architect for providing Advance Planning to include Sustainable Energy Programming services for the 140,000 GSF Life Sciences and Biotechnology Building project

Package Status: Approved

Design Contract Type: Letter Agreement (Sustainable Energy Programming) Status: Active

SCO ID#: 16-14389-02A

Package: Life Sciences and Biotechnology Building

Description: Life Sciences and Biotechnology Building (141,500 SF), Parking Deck (511 Spaces), and Chilled Water and Electrical Ductbank

Package Status: Under Design

Design Contract Type: Standard Design Contract (Fully Funded) Status: Active

SCO ID#: 13-10604-03 Commissioning

Project Milestone	Baseline Schedule – 12/1/2017	Revised Schedule	Actual
Schematic Design Approved by SCO (Final Approval)	11/17/2017	11/17/2017	11/17/2017
Design Development Approved by SCO (Final Approval)	7/9/2018	7/9/2018	
Construction Documents Approved by SCO (Final Approval)	7/15/2019	7/15/2019	
Final Documents Approved by SCO (Final Approval)	7/15/2019	7/15/2019	
Approved for Bid	7/15/2019	7/15/2019	
Construction Start (Notice to Proceed)	10/7/2019	10/7/2019	
Estimated Completion (Contract Completion)	10/29/2021	10/29/2021	
Final Acceptance	10/29/2021	10/29/2021	
Final Approval - Last step of Closeout process	3/3/2022	3/3/2022	

Department: Educational Institutions (Universities)

Agency: Elizabeth City State University

Program Name: 2016 Connect NC Bond - Moore Hall Building Renovation and G.R. Little Library Building Renovation

Program ID: 12519

Fund Source	Authorization	Allocation
State Debt	46633-301	8,500,000
State Debt	46633-302	4,500,000
Total		13,000,000

Bond Funds Cash Flow	Original Cash Flow Estimate	Current Cash Flow Estimate	Actual Cash Flow through 12/31/2017
2016-2017	547,500	0	0
2017-2018	3,348,450	746,527	124,493
2018-2019	9,104,050	8,006,120	0
2019-2020	0	4,247,353	0
2020-2021	0	0	0
2021-2022	0	0	0
2022-2023	0	0	0
2023-2024	0	0	0
	13,000,000	13,000,000	124,493

Project ID: 14387

Name: Moore Hall Renovation and G. R. Little Library Renovation

Description: Moore Hall is a two-story brick academic building hosting the Department of General Studies and Extended Learning and the Department of Social and Behavioral Sciences. The building has 15 labs and classrooms and 48 faculty and staff offices. The last interior renovation of Moore Hall (excluding the auditorium), consisting of new carpet and paint, was completed in 1999. Since this time, the building has suffered from numerous leaks, termite damage and little maintenance. All flooring, underlayment, paint, and ceilings require renovation. The elevator, installed in 1987, needs to be upgraded. Window and door seals, installed in 1987, have failed and need replacement. The fire alarm system has been redesigned but has not been funded for construction. The electrical service panels need to be upgraded. A majority of all freshman-required general education classes are taught in Moore Hall resulting in it being the most utilized academic building on campus. This project will revitalize the classroom, lab and office spaces, as well as the building envelope, providing a comfortable student environment supporting retention and recruitment

efforts. The G.R. Little Library renovation will repair the building envelope and refurbish the HVAC system to properly regulate the temperature and humidity of the building. All spaces will receive finish upgrades providing a central academic area for research, meetings and studying meeting the expectations of our students.

SCO ID#: 16-14387-01A

Package: Moore Hall Renovation (ADV) and G. R. Little Library Renovation (ADV)

Description: Owner needs the services of an Architect for providing Advance Planning to include Sustainable Energy Programming services for renovation of Moore Hall and renovation of G. R. Little Library

Package Status: Complete

Design Contract Type: Letter Agreement (Sustainable Energy Programming) Status: Complete

SCO ID#: 16-14387-02 and 02A/02B CM at Risk Preconstruction Services

Package Status: Under design

Design Contract Type: Standard Design Contract (Fully Funded) Status: Active

Project Milestone	Original Schedule*	Revised Schedule*	Actual
Schematic Design Approved by SCO (Final Approval)	8/25/2017	6/22/2018	
Design Development Approved by SCO (Final Approval)	3/10/2017	9/10/2018	
Construction Documents Approved by SCO (Final Approval)	6/12/2018	3/22/2019	
Final Documents Approved by SCO (Final Approval)	6/12/2018	3/22/2019	
Approved for Bid	6/12/2018	3/22/2019	
Construction Start (Notice to Proceed)	8/23/2018	6/4/2019	
Estimated Completion (Contract Completion)	5/7/2019	3/6/2020	
Final Acceptance	5/7/2019	3/6/2020	
Final Approval - Last step of Closeout process	5/15/2019	3/16/2020	

*There are two phases within this schedule; dates shown are the latest (last) date reported within the listed work stage.

Department: Educational Institutions (Universities)

Agency: Fayetteville State University

Program Name: 2016 Connect NC Bond - Lyons Science Building Renovation

Program ID: 12521

Fund Source	Authorization	Allocation
State Debt	46634-301	10,000,000
Total		10,000,000

Bond Funds Cash Flow	Baseline Cash Flow Estimate (New Baseline effective 12/1/2017)	Current Cash Flow Estimate	Actual Cash Flow through 12/31/2017
2016-2017	104,828	104,828	104,828
2017-2018	786,923	786,923	317,383
2018-2019	7,583,342	7,583,342	0
2019-2020	1,491,705	1,491,705	0
2020-2021	33,202	33,202	0
2021-2022	0	0	0
2022-2023	0	0	0
2023-2024	0	0	0
	10,000,000	10,000,000	422,211

Project ID: 15473

Name: Lyons Science Building Renovation

Description: The existing Lyons Science Building has undergone a comprehensive study to determine the best use of its space based on the current and future needs of the university. The three-story building houses various science departments, history and government, geology and GIS Lab. There is a planetarium, a microprobe lab, aquarium, and an observatory located in this facility. The renovation will upgrade technology, equipment and furnishings in all of these areas as well as re-purposing space to meet current program needs. This renovation will create much needed faculty and staff offices, as well as general classroom space. This will also be an opportunity to address the building's outdated heating, ventilation, and air-conditioning systems, code deficiencies and ADA compliance, as well as providing a much more efficient building envelope.

SCO ID#: 16-15473-02 and 02A

Package: Lyons Science Building ***CMR Contract***

Description: Lyons Science Building Renovation (77,000 SF)

Package Status: Under Design

Design Contract Type: Standard Design Contract (Fully Funded) Status: Active

SCO ID#: 16-15473-03A Commissioning

Project Milestone	Baseline Schedule – 12/1/2017	Revised Schedule	Actual
Schematic Design Approved by SCO (Final Approval)	9/5/2017	9/5/2017	9/5/2017
Design Development Approved by SCO (Final Approval)	2/1/2018	2/1/2018	
Construction Documents Approved by SCO (Final Approval)	7/9/2018	7/9/2018	
Final Documents Approved by SCO (Final Approval)	7/9/2018	7/9/2018	
Approved for Bid	7/9/2018	7/9/2018	
Construction Start (Notice to Proceed)	8/22/2018	8/22/2018	
Estimated Completion (Contract Completion)	8/22/2019	8/22/2019	
Final Acceptance	8/22/2019	8/22/2019	
Final Approval - Last step of Closeout process	9/25/2019	8/22/2019	

Department: Educational Institutions (Universities)

Agency: NC A & T State University

Program Name: 2016 Connect NC Bond - Engineering Building

Program ID: 12522

Fund Source	Authorization	Allocation
State Debt	46637-301	90,000,000
Total		90,000,000

Bond Funds Cash Flow	Baseline Cash Flow Estimate (New Baseline effective 9/1/2017)	Current Cash Flow Estimate	Actual Cash Flow through 12/31/2017
2016-2017	412,210	412,210	412,210
2017-2018	6,226,659	5,214,527	2,246,210
2018-2019	10,918,704	10,455,079	0
2019-2020	39,826,043	37,475,167	0
2020-2021	32,616,384	36,443,017	0
2021-2022	0	0	0
2022-2023	0	0	0
2023-2024	0	0	0
	90,000,000	90,000,000	2,658,420

Project ID: 15521

Name: Engineering Research and Innovation Complex (ERIC)

Description: North Carolina A&T State University is planning for a New College of Engineering Facility that will be located on campus. As an extension of the College of Engineering, a new Engineering and Research Center is proposed to house and support new programs and research in the areas of bio-engineering and general science programs currently located in other campus facilities that will be needed to support the new programs. Research labs, instructional classrooms, faculty and graduate offices and necessary ancillary spaces required to support the complex is scoped in the facility.

SCO ID#: 16-15521-01A

Package: Engineering Building (ADV)

Description: Owner needs the services of an Architect for providing Advance Planning to include Sustainable Energy Programming services for the 150,000 SF Engineering Building project

Package Status: Complete

Design Contract Type: Letter Agreement (Sustainable Energy Programming) Status: Complete

SCO ID#: 16-15521-02 and 02A

Package: Engineering Research and Innovation Complex (Pre-Con Svcs)

Description: Engineering Research and Innovation Complex (130,000 SF)

Package Status: Under Design

Design Contract Type: Standard Design Contract (Fully Funded) Status: Active

SCO ID#: 16-15521-02B CM at Risk Contract

SCO ID#: 16-15521-03A Commissioning

Project Milestone	Baseline Schedule – 9/1/2017	Revised Schedule	Actual
Schematic Design Approved by SCO (Final Approval)	6/28/2017	6/28/2017	6/28/2017
Design Development Approved by SCO (Final Approval)	1/3/2018	2/5/2018*	
Construction Documents Approved by SCO (Final Approval)	8/8/2018	9/10/2018*	
Final Documents Approved by SCO (Final Approval)	8/8/2018	9/10/2018*	
Approved for Bid	8/8/2018	9/10/2018*	
Construction Start (Notice to Proceed)	12/19/2018	1/21/2019*	
Estimated Completion (Contract Completion)	1/20/2021	2/22/2021	
Final Acceptance	3/24/2021	4/26/2021	
Final Approval - Last step of Closeout process	5/12/2021	6/14/2021	

*There are two phases within this schedule; dates shown are the latest (last) date reported within the listed work stage.

Department: Educational Institutions (Universities)

Agency: NC Central University

Program Name: 2016 Connect NC Bond - Business School

Program ID: 12523

Fund Source	Authorization	Allocation
State Debt	46635-301	30,000,000
Total		30,000,000

Bond Funds Cash Flow	Original Cash Flow Estimate	Current Cash Flow Estimate	Actual Cash Flow through 12/31/2017
2016-2017	928,361	0	0
2017-2018	1,004,317	733,142	111,102
2018-2019	2,314,927	1,070,171	0
2019-2020	11,307,226	2,798,387	0
2020-2021	14,123,916	11,879,212	0
2021-2022	321,253	13,218,408	0
2022-2023	0	300,680	0
2023-2024	0	0	0
	30,000,000	30,000,000	111,102

Project ID: 15500

Name: School of Business Building

Description: This project will provide a new 86,200 square-foot facility that will accommodate the expanding needs for increased classroom, teaching lab and administrative space for NCCU's School of Business. With a focus on experiential learning, technology integration, business partnering and community service, the School of Business, through its undergraduate and MBA programs and other Executive Education Programs, will benefit from an updated academic facility that provides the latest advances in distance learning, audio-visual and smart classroom technology. The experiential education opportunities for students in the Hospitality and Tourism Program have unlimited potential for heightening their exposure in a setting that provides for both the educational and practical aspects of the industry, close-at-hand.

SCO ID#: 16-15500-01A

Package: School of Business Building (ADV) - Pre-Con

Description: Owner needs the services of an Architect for providing Advance Planning to include Sustainable Energy Programming services for the 86,200 SF School of Business Building project

Package Status: Under Design

Design Contract Type: Letter Agreement (Sustainable Energy Programming) Status: Active

Project Milestone	Original Schedule	Revised Schedule	Actual
Schematic Design Approved by SCO (Final Approval)	10/26/2017	10/3/2018	
Design Development Approved by SCO (Final Approval)	5/11/2018	4/18/2019	
Construction Documents Approved by SCO (Final Approval)	3/22/2019	2/28/2020	
Final Documents Approved by SCO (Final Approval)	3/22/2019	2/28/2020	
Approved for Bid	3/22/2019	2/28/2020	
Construction Start (Notice to Proceed)	5/3/2019	4/10/2020	
Estimated Completion (Contract Completion)	4/13/2021	3/22/2022	
Final Acceptance	4/13/2021	3/22/2022	
Final Approval - Last step of Closeout process	4/18/2022	6/21/2022	

Department: Educational Institutions (Universities)

Agency: NC School Of Science & Math

Program Name: 2016 Connect NC Bond - N.C. School of Technology and Engineering

Program ID: 12537

Fund Source	Authorization	Allocation
State Debt	46619-301	58,000,000
Total		58,000,000

Bond Funds Cash Flow	Original Cash Flow Estimate*	Current Cash Flow Estimate	Actual Cash Flow through 12/31/2017
2016-2017	36,445	36,445	36,445
2017-2018	1,348,069	1,297,385	664,361
2018-2019	1,927,883	1,760,044	0
2019-2020	14,851,598	11,309,873	0
2020-2021	38,960,247	41,966,296	0
2021-2022	875,758	1,629,957	0
2022-2023	0	0	0
2023-2024	0	0	0
	58,000,000	58,000,000	700,806

*This cash flow is based on the first schedule developed for this project as described below under the Project Milestones table.

Project ID: 14368

Name: NC School of Science and Mathematics - Western Campus

Description: Each year, hundreds of well-qualified NC students are denied admission to programs of the North Carolina School of Science and Mathematics (NCSSM). Opened in 1980, NCSSM was our nation's first public residential school to award diplomas for a specialized secondary education in science, technology, engineering and mathematics (STEM), and has since developed equally unique online and video conferencing offerings for part-time students statewide. In an effort to increase STEM education opportunities for our state's many talented students, the NC Connect Bond referendum passed in March of 2016, authorized the expenditure of \$58,000,000 to expand NCSSM by opening a campus in Burke County. Preliminary feasibility studies indicate up to 300 students may be accommodated for this capital investment, depending on final site selection and other factors. Advanced program and project planning is slated to begin FY 16-17, and assuming best case planning appropriations, bond fund availability, design and construction scenarios, a new campus may open for operation by the Fall of 2020 or 2021.

SCO ID#: 16-14368-01A

Package: NC School Of Science & Math - Western Campus (Programming & ADV)

Description: Owner needs the services of an Architect for providing Programming services for the “NC School of Science and Mathematics - Western Campus” project to be located in Morganton

Package Status: Complete

Design Contract Type: Letter Agreement (Sustainable Energy Programming) Status: Complete

SCO ID#: 16-14368-02A

Package: NC School of Science and Mathematics - Western Campus

Description: NC School of Science and Mathematics - Western Campus

Package Status: Under Design

Design Contract Type: Standard Design Contract (Fully Funded) Status: Creating

Project Milestone	Original Schedule	Revised Schedule	Actual
Schematic Design Approved by SCO (Final Approval)	4/27/2018	6/6/2018	
Design Development Approved by SCO (Final Approval)	10/30/2018	12/7/2018	
Construction Documents Approved by SCO (Final Approval)	5/31/2019	7/8/2019	
Final Documents Approved by SCO (Final Approval)	5/31/2019	7/8/2019	
Approved for Bid	5/31/2019	7/8/2019	
Construction Start (Notice to Proceed)	8/1/2019	9/6/2019	
Estimated Completion (Contract Completion)	4/1/2021	5/7/2021	
Final Acceptance	4/1/2021	5/7/2021	
Final Approval - Last step of Closeout process	7/8/2021	8/13/2021	

The “Original Schedule” effective 9/1/2017, was the first to be developed for this project and will be reported as such until a revised “baseline” is established, following approval of the schematic design documents by SCO.

Department: Educational Institutions (Universities)

Agency: NC State University

Program Name: Engineering Building Oval and Campus Infrastructure

Program ID: 12199

Fund Source	Authorization	Allocation
General Fund	41524-313	1,000,000
General Fund	41624-304	1,000,000
Non-General Fund	41524-313	1,545,487
Non-State Debt	41524-313	56,356,899
State Debt	46624-301	75,000,000
Total		134,902,386

Bond Funds Cash Flow	Baseline Cash Flow Estimate (New Baseline effective 9/1/2017)	Current Cash Flow Estimate	Actual Cash Flow through 12/31/2017
2016-2017	550,666	550,666	550,666
2017-2018	10,324,694	17,876,814	3,680,337
2018-2019	47,333,709	40,966,830	0
2019-2020	16,790,931	15,605,690	0
2020-2021	0	0	0
2021-2022	0	0	0
2022-2023	0	0	0
2023-2024	0	0	0
	75,000,000	75,000,000	4,231,003

Project ID: 12551

Name: Engineering Building Oval

Description: This new building for the College of Engineering provides 227,000 gross square feet for the Fitts Department of Industrial and Systems Engineering, the Department of Civil, Construction, and Environmental Engineering, and the College of Engineering Administration. The total project cost of \$154M will be split-funded with \$77M in appropriated funds and \$77M in non-appropriated funds. The facility will include reconfigurable laboratories that provide flexibility for changing research initiatives; new classrooms and class laboratories with the latest technology; and office suites that encourage interaction between faculty, staff and administrators. Campus

infrastructure and new structured parking are included. The project fulfills the university decision made in the mid-1990's to move the College of Engineering to Centennial Campus thus allowing existing outdated buildings vacated by Engineering to be renovated to address growth in other colleges. This fourth Engineering building completes the move of eight of the nine Engineering departments as well as the college administration to Centennial Campus. The project fulfills the vision of the 2014 NC State University physical master plan, A Campus of Neighborhoods and Paths, and is guided by The Pathway to the Future, NC State University 2011-2020 Strategic Plan, Goal #1: Enhance the Success of our Students through Educational Innovation, and Goal #2: Enhance Scholarship and Research by Investing in Faculty and Infrastructure. This project is consistent with the university's 2020 enrollment targets.

SCO ID#: 15-12551-01A

Package: Engineering Building Oval (ADV)

Description: Owner needs the services of an Architect for providing Advance Planning to include Sustainable Energy Programming services for the 230,000 SF Engineering Building Oval project

Package Status: Complete

Design Contract Type: Letter Agreement (Sustainable Energy Programming) Status: Complete

SCO ID#: 15-12551-02 Building Standard Design Contract Status: Active

SCO ID#: 15-12551-02A CM at Risk Preconstruction Services

SCO ID#: 15-12551-02D CMR Contract

SCO ID#: 15-12551-03 Geotechnical Services

SCO ID#: 15-12551-04 Commissioning

Project Milestone	Baseline Schedule -9/1/2017*	Revised Schedule*	Actual
Schematic Design Approved by SCO (Final Approval)	3/14/2017	4/3/2017	3/14/2017
Design Development Approved by SCO (Final Approval)	8/18/2017	8/18/2017	8/18/2017
Construction Documents Approved by SCO (Final Approval)	5/1/2018*	5/18/2018*	
Final Documents Approved by SCO (Final Approval)	5/1/2018*	5/18/2018*	
Approved for Bid	5/1/2018*	5/18/2018*	
Construction Start (Notice to Proceed)	5/17/2018*	2/6/2018*	
Estimated Completion (Contract Completion)	6/8/2020	7/9/2020	
Final Acceptance	2/15/2021	3/18/2021	
Final Approval - Last step of Closeout process	3/15/2021	4/15/2021	

*Schedule includes multiple phases. Dates identified by asterisk are for the building structure phase. Site work and early structural work begin prior to these dates.

Department: Educational Institutions (Universities)

Agency: NC State University

Program Name: Plant Sciences Building

Program ID: 12200

Fund Source	Authorization	Allocation
Non-General Fund	41524-314	58,462,846
Non-State Debt	41624-301	16,200,000
State Debt	46624-302	85,000,000
Total		159,662,846

Bond Funds Cash Flow	Original Cash Flow Estimate	Current Cash Flow Estimate*	Actual Cash Flow through 12/31/2017
2016-2017	0	0	0
2017-2018	0	165,293	0
2018-2019	4,145,097	8,857,509	0
2019-2020	34,345,446	15,880,193	0
2020-2021	46,509,457	41,649,342	0
2021-2022	0	15,862,735	0
2022-2023	0	0	0
2023-2024	0	0	0
	85,000,000	82,415,072	0
	Centennial Campus Utility Infrastructure (shown below)	2,584,928	0
	Total	85,000,000	0

*See separate cash flow, below, for Centennial Campus Utility Infrastructure, which accounts for the balance of bond funding.

Project ID: 15471

Name: Plant Sciences Building

Description: This new interdisciplinary building (199,000 gross square feet) for the Plant Sciences will bring together top talent in a spectrum of disciplines to develop innovative plant sciences solutions. The total project cost of \$160.2M will be split funded with \$85M in appropriated funds and \$75.2M in non-appropriated funds. The facility includes 180,000 gross square feet of project-based laboratory suites, corporate and

entrepreneurship suites (18,000 GSF), growth chambers/incubator space, office and flexible seminar suites, as well as 19,000 gross square feet of BSL2 and BSL3 rooftop greenhouse space and bio-containment areas. The project will provide improvements to campus infrastructure and new structured parking. NC State has one of the strongest foundations of plant sciences research in the world. Given the economic trends in agribusiness, this premier facility will impact nearly every sector of business involved in food production in our state. The project fulfills the vision of the 2014 NC State University physical master plan, A Campus of Neighborhoods and Paths, and is guided by The Pathway to the Future, NC State University 2011-2020 Strategic Plan, Goal #2: Enhance Scholarship and Research by Investing in Faculty and Infrastructure, and Goal #3: Enhance Interdisciplinary Scholarship to Address the Grand Challenges of Society.

SCO ID#: 16-15471-01A

Package: Plant Sciences Building (ADV)

Description: Owner needs the services of an Architect for providing Advance Planning to include Sustainable Energy Programming services for the 199,000 GSF Plant Sciences Building project

Package Status: Under Design

Design Contract Type: Letter Agreement (Sustainable Energy Programming) Status: Active

SCO ID#: 16-15471-04 Standard Design Contract Status: Active

SCO ID#: 16-15471-02 Commissioning

SCO ID#: 16-15471-03 Commissioning

Project ID: 15945

Name: Centennial Campus Utility Infrastructure

Description: Centennial Campus Utility Infrastructure to increase chilled water supply capacity via installation of a thermal energy storage tank while reducing the electrical demand associated with the generation of chilled water. Power system improvements will redistribute system loads to alleviate overload on existing circuits, add redundant capacity, and allow for acceptance of new building loads. Additional fuel oil storage capacity, back up for natural gas curtailment, will be installed to support increased demand on steam generation.

Bond Funds Cash Flow	Baseline Cash Flow Estimate (New Baseline effective 12/1/2017)*	Current Cash Flow Estimate*	Actual Cash Flow through 12/31/2017
2016-2017	0		0
2017-2018	0		0
2018-2019	0		0
2019-2020	616,483	616,483	0
2020-2021	1,968,445	1,968,445	0
2021-2022	0		0

Bond Funds Cash Flow	Baseline Cash Flow Estimate (New Baseline effective 12/1/2017)*	Current Cash Flow Estimate*	Actual Cash Flow through 12/31/2017
2022-2023	0		0
2023-2024	0		0
	2,584,928	2,584,928	0

*Originally part of a single cash flow projection for the entire project, this component is now separated and a new baseline established following SCO approval of Schematic Design.

SCO ID#: 16-15945-01 and 01A
Package: Centennial Campus Utility Infrastructure - Pre-Construction Services
Package Status: Under Design
Design Contract Type: Standard Design Contract (Fully Funded) Status: Active

Project Milestone	Baseline Schedule – 12/1/2017*	Revised Schedule	Actual
Schematic Design Approved by SCO (Final Approval)	Combined SD/DD	submission	
Design Development Approved by SCO (Final Approval)	8/9/2017	8/9/2017	8/9/2017
Construction Documents Approved by SCO (Final Approval)	6/28/2018	6/28/2018	
Final Documents Approved by SCO (Final Approval)	6/28/2018	6/28/2018	
Approved for Bid	6/28/2018	6/28/2018	
Construction Start (Notice to Proceed)	10/25/2018	10/25/2018	
Estimated Completion (Contract Completion)	4/22/2020	4/22/2020	
Final Acceptance			
Final Approval - Last step of Closeout process			

*There are two phases within this schedule; dates shown are the latest (last) date reported within the listed work stage.

Department: Educational Institutions (Universities)

Agency: UNC Asheville

Program Name: 2016 Connect NC Bond - Owen and Carmichael Hall Renovations

Program ID: 12526

Fund Source	Authorization	Allocation
State Debt	46627-301	15,100,000
State Debt	46627-302	6,000,000
Total		21,100,000

Bond Funds Cash Flow	Original Cash Flow Estimate	Current Cash Flow Estimate	Actual Cash Flow through 12/31/2017
2016-2017	1,017,468	265,000	265,000
2017-2018	1,202,992	1,349,198	323,402
2018-2019	5,410,124	2,597,315	0
2019-2020	10,616,767	14,640,603	0
2020-2021	2,852,649	2,247,884	0
2021-2022	0	0	0
2022-2023	0	0	0
2023-2024	0	0	0
	21,100,000	21,100,000	588,402

Project ID: 15490

Name: Owen Hall and Carmichael Hall Renovation

Description: Renovate and revitalize Owen Hall and Carmichael Hall, two buildings on UNC Asheville's campus that have been in continuous use for 36 years and 49 years respectively, with no major renovations or improvements. Both buildings' architectural, mechanical, plumbing and electrical systems are well past their normal life expectancy. Owen Hall does not have fire sprinklers and the heating and air conditioning systems do not comply with current standards for health and comfort. The building's bathrooms, elevator, student art studios, art patio, and fixed seating classrooms do not meet the current Federal ADA Standards or the North Carolina Accessibility Code. Carmichael Hall has safety hazards throughout the building. For example, the fire stairs do not meet current life safety requirements as they exit to the interior of the building. The building does not have fire sprinklers and the heating and air conditioning systems do not comply with current

standards for health and comfort. The building fire alarm system is outdated and is not addressable. Carmichael Hall's bathrooms and elevator do not meet the current Federal ADA Standards or the North Carolina Accessibility Code.

SCO ID#: 16-15490-02 and 02A
Package: Owen Hall and Carmichael - PreConSvcs
Description: Renovation of 47.366 GSF Owen Hall and 31.441 GSF Carmichael Hall
Package Status: Under Design
Design Contract Type: Standard Design Contract (Fully Funded) Status: Active
SCO ID#: 16-15490-02B CM at Risk Contract

Project Milestone	Original Schedule	Revised Schedule	Actual
Schematic Design Approved by SCO (Final Approval)	4/28/2017	1/17/2018	
Design Development Approved by SCO (Final Approval)	8/29/2017	6/13/2018	
Construction Documents Approved by SCO (Final Approval)	7/12/2018	2/20/2019	
Final Documents Approved by SCO (Final Approval)	7/12/2018	2/20/2019	
Approved for Bid	7/12/2018	2/20/2019	
Construction Start (Notice to Proceed)	8/21/2018	2/26/2019	
Estimated Completion (Contract Completion)	8/21/2020	7/17/2020	
Final Acceptance	8/21/2020	10/12/2020	
Final Approval - Last step of Closeout process	8/24/2021	10/19/2020	

Department: Educational Institutions (Universities)

Agency: UNC Chapel Hill

Program Name: 2016 Connect NC Bond - Medical Education Building Replacement

Program ID: 12528

Fund Source	Authorization	Allocation
Non-State Debt	41723-303	21,140,000
Non-State Debt	41723-305	22,600,000
State Debt	46623-301	68,000,000
Total		111,740,000

Bond Funds Cash Flow	Original Cash Flow Estimate	Current Cash Flow Estimate	Actual Cash Flow through 12/31/2017
2016-2017	2,357,149	876,292	876,292
2017-2018	3,140,428	4,369,836	1,221,348
2018-2019	5,469,832	12,441,600	0
2019-2020	32,935,393	39,865,481	0
2020-2021	23,115,793	10,108,859	0
2021-2022	981,405	289,541	0
2022-2023	0	48,391	0
2023-2024	0	0	0
	68,000,000	68,000,000	2,097,639

Project ID: 15501

Name: Medical Education Building Replacement

Description:

Today nearly half of all doctors trained at the UNC School of Medicine (SOM) practice in the state of North Carolina. They were educated in Berryhill Hall which is still the home for the Medical Education program today. The building is past its prime not only in age, but also in function. The facility has a significant amount of deferred maintenance issues, which would cost several million dollars to repair. It is filled beyond capacity; when it opened in 1970, there were 353 medical students. In 2014, the School of Medicine trained approximately 2,400 inter-professional health providers and medical students. Although UNC SOM attracts top students as evidenced by elite rankings in US News & World Report, outdated learning spaces make it difficult to continue to recruit the best. Not only are the Microbiology, and Anatomy & Physiology labs outdated, the classrooms are geared toward traditional lecture type teaching styles. Today, instructors desire flexible space, so that they can incorporate newer teaching styles using small group learning and student centered inquiry. Similarly, Berryhill lacks sufficient community space where students can gather and study, and build a home during their journey through

medical school. The new Medical Education building would address these deficiencies and replace Berryhill Hall with a new facility that would allow the Medical Education program to compete with top medical schools across the country; schools that have already invested in state-of-the-art facilities. Additionally, a new medical education building will enable UNC-Chapel Hill to educate top students in greater numbers increasing the class size by nearly 30 percent.

SCO ID#: 16-15501-01A

Package: Medical Education Building (ADV)

Description: Owner needs the services of an Architect for providing Advance Planning to include Sustainable Energy Programming services for the 124,500 GSF Medical Education Building project

Package Status: Under Design

Design Contract Type: Letter Agreement (Sustainable Energy Programming) Status: Active

SCO ID#: 16-15501-02A Geotechnical Services

SCO ID#: 16-15501-03A and 3B

Package: Medical Education Building (CMR Pre-Con)

Description: New 145,000 GSF Medical Education Building to replace Berryhill Hall

Package Status: Under Design

Design Contract Type: Standard Design Contract (Fully Funded) Status: Active

SCO ID#: 16-15501-04A Owner Other Services

SCO ID#: 16-15501-05A Geotechnical Services

Project Milestone	Original Schedule	Revised Schedule	Actual
Schematic Design Approved by SCO (Final Approval)	5/2/2017	1/8/2018	
Design Development Approved by SCO (Final Approval)	9/29/2017	5/28/2018	
Construction Documents Approved by SCO (Final Approval)	9/25/2018	1/22/2019	
Final Documents Approved by SCO (Final Approval)	9/25/2018	1/22/2019	
Approved for Bid	9/25/2018	1/22/2019	
Construction Start (Notice to Proceed)	2/22/2019	4/1/2019	
Estimated Completion (Contract Completion)	4/12/2021	8/30/2022	
Final Acceptance	10/8/2021	8/30/2022	
Final Approval - Last step of Closeout process	7/8/2022	9/20/2023	

Project ID: 16108

Name: Medical Education Building - Berryhill Vivarium Migration

Description: To make way for the new Medical Education Building, this project will relocate the animals in the Berryhill Hall vivarium to various DLAM facilities across campus. Our preliminary planning study shows that renovations and equipment replacement in DLAM facilities in multiple research buildings is necessary to allow this relocation. The project will also address \$4.5M in deficiencies in existing DLAM facilities necessary to meet new regulatory requirements.

SCO ID#: 16-16108-01A

Package: Berryhill Vivarium Migration (PROGRAMMING)

Description: Owner needs the services of an Architect for providing Programming services for the Medical Education Building - Berryhill Vivarium Migration project

Package Status: Transferred to Owner

Design Contract Type: Letter Agreement (Programming) Status: Complete

SCO ID#: 16-16108-02A Geotechnical Services

SCO ID#: 16-16108-03, 3A and 3B Standard Design Contract, CM at Risk Preconstruction Services

SCO ID#: 16-16108-04A Commissioning

Project Milestone	Original Schedule*	Revised Schedule*	Actual
Schematic Design Approved by SCO (Final Approval)	Combined SD/DD	Combined SD/DD/CD	
Design Development Approved by SCO (Final Approval)	4/20/2017	Combined SD/DD/CD	
Construction Documents Approved by SCO (Final Approval)	8/14/2017	5/2/2018	
Final Documents Approved by SCO (Final Approval)	8/14/2017	5/2/2018	
Approved for Bid	8/14/2017	5/2/2018	
Construction Start (Notice to Proceed)	10/16/2017	5/31/2018	
Estimated Completion (Contract Completion)	4/16/2018	3/22/2019	
Final Acceptance	4/16/2018	3/22/2019	
Final Approval - Last step of Closeout process	8/30/2018	6/24/2019	

*This project was not defined when bond program schedules were established 7/1/2016 and so was not baselined at that time. Information shown as "Original" reflects the initial schedule as it was previously reported. There are currently multiple phases within this schedule; dates shown are the latest (last) date reported within the listed work stage.

Department: Educational Institutions (Universities)

Agency: UNC Charlotte

Program Name: 2016 Connect NC Bond - Sciences Building

Program ID: 12529

Fund Source	Authorization	Allocation
Non-General Fund	46726-301	11,000,000
State Debt	46626-301	90,000,000
Total		101,000,000

Bond Funds Cash Flow	Original Cash Flow Estimate	Current Cash Flow Estimate	Actual Cash Flow through 12/31/2017
2016-2017	3,305,417	805,730	805,730
2017-2018	3,539,814	4,907,091	2,090,114
2018-2019	28,623,957	4,016,202	0
2019-2020	46,549,262	45,528,368	0
2020-2021	7,906,550	34,667,609	0
2021-2022	75,000	75,000	0
2022-2023	0	0	0
2023-2024	0	0	0
	90,000,000	90,000,000	2,895,844

Project ID: 14355

Name: Sciences Building

Description: The Sciences Building will foster interdisciplinary science education and research, provide a collaborative environment for students and faculty, and be a symbol of UNC Charlotte's commitment to science education. The building will include STEM interdisciplinary instructional and research space for UNC Charlotte's growing student population and research activities. The University's current science building was built in 1985 when campus enrollment was 11,000. UNC Charlotte has grown to over 28,000 students, a 142% increase. The new facility will integrate undergraduate instructional laboratories, research laboratories, faculty offices, graduate student work space and collaboration space into a unified center for learning and research for chemistry, biology, and physics. The cutting edge facility will include the latest technology and will incorporate national trends in STEM education. The project also includes a regional utility plant to serve the Science Building and other campus facilities. Programs and research initiatives housed in this Science Building will contribute to the economic development of the State and region.

SCO ID#: 16-14355-01 and 01A

Package: Sciences Building (ADV & PreCon Svcs)

Description: Owner needs the services of an Architect for providing Advance Planning to include Sustainable Energy Programming services for the 120,000 SF -130,000 SF Sciences Building project which also includes a 11,000 SF - 15,000 SF Regional Utility Plant and 4,000 SF - 5,000 SF Data Center

Package Status: Under Design

Design Contract Type: Letter Agreement (Sustainable Energy Programming) Status: Active

SCO ID#: 16-14355-02 and 02B Standard Design and CM at Risk Contract

Package: Science Building & Data Center ***CMR Contract***

Description: Science Building (127,640 GSF), Regional Utility Plant #5/Existing Building Conversions (12,480 GSF), and Data Center (4,615 GSF)

Package Status: Under Design

Design Contract Type: Standard Design Contract (Fully Funded) Status: Active

SCO ID#: 16-14355-03A Commissioning

Project Milestone	Original Schedule	Revised Schedule	Actual
Schematic Design Approved by SCO (Final Approval)	6/17/2017	2/13/2018	
Design Development Approved by SCO (Final Approval)	9/15/2017	5/24/2018	
Construction Documents Approved by SCO (Final Approval)	6/27/2018	12/2/2018	
Final Documents Approved by SCO (Final Approval)	6/27/2018	12/2/2018	
Approved for Bid	6/27/2018	12/2/2018	
Construction Start (Notice to Proceed)	6/29/2018	6/28/2019	
Estimated Completion (Contract Completion)	8/12/2020	12/26/2020	
Final Acceptance	8/13/2020	12/26/2020	
Final Approval - Last step of Closeout process	8/17/2021	12/26/2020	

Department: Educational Institutions (Universities)

Agency: UNC Greensboro

Program Name: 2016 Connect NC Bond - Nursing and Instructional Building

Program ID: 12530

Fund Source	Authorization	Allocation
State Debt	46625-301	105,000,000
Total		105,000,000

Bond Funds Cash Flow	Baseline Cash Flow Estimate (New Baseline effective 9/1/2017)	Current Cash Flow Estimate	Actual Cash Flow through 12/31/2017
2016-2017	2,125,782	2,125,782	2,125,782
2017-2018	7,679,087	7,618,691	3,264,158
2018-2019	42,220,511	42,260,780	0
2019-2020	47,467,155	47,487,279	0
2020-2021	5,507,466	5,507,468	0
2021-2022	0	0	0
2022-2023	0	0	0
2023-2024	0	0	0
	105,000,000	105,000,000	5,389,939

Project ID: 15503

Name: Nursing and Instructional Building

Description: This project includes demolition of the McIver Building and construction of a new four-story facility that will house the School of Nursing which is currently located in four buildings. The School of Nursing will occupy approximately fifty percent of the building allowing for enrollment expansion and realizing benefits resulting from being in one location. In addition to spaces for the School of Nursing, the facility will provide teaching and flexible laboratory research space for Biology, Chemistry and Health and Human Sciences as well as classroom space. All components are critical in order to maximize the effectiveness of the investment by addressing immediate space needs in over-capacity programs and leveraging opportunity for growth in enrollment in high-demand STEM and health fields. The new facility will be built at the same site as the current McIver Building. The project includes construction of phase I of the south chiller plant providing capacity for the Nursing and Instructional Building and enhancing reliability of the campus chilled water system.

SCO ID#: 16-15503-01A

Package: Nursing and Instructional Building (ADV)

Description: Owner needs the services of an Architect for providing Advance Planning to include sustainable Energy Programming services for the 180,000 SF Nursing and Instructional Building project

Package Status: Complete

Design Contract Type: Letter Agreement (sustainable Energy Programming) Status: Complete

SCO ID#: 16-15503-02 and 02A-1

Package: Nursing and Instructional Building (CMR Pre-Con)

Description: CMR Pre-Con for Nursing and Instructional Building and South Chiller Plant

Package Status: Under Design

Design Contract Type: Standard Design Contract (Fully Funded) Status: Active

SCO ID#: 16-15503-02B-2 CMR Contract

SCO ID#: 16-15503-03A Commissioning Services

Project Milestone	Baseline Schedule -9/1/2017*	Revised Schedule*	Actual
Schematic Design Approved by SCO (Final Approval)	6/2/2017	6/2/2017	6/2/2017
Design Development Approved by SCO (Final Approval)	10/13/2017	10/30/2017	10/30/2017
Construction Documents Approved by SCO (Final Approval)	5/11/2018	5/14/2018	
Final Documents Approved by SCO (Final Approval)	5/11/2018	5/14/2018	
Approved for Bid	5/11/2018	5/14/2018	
Construction Start (Notice to Proceed)	7/12/2018	6/12/2018	
Estimated Completion (Contract Completion)	5/1/2020	5/1/2020	
Final Acceptance	5/1/2020	5/1/2020	
Final Approval - Last step of Closeout process	5/8/2020	5/8/2020	

*Schedule includes two phases. Dates shown are for the building phase only.

Department: Educational Institutions (Universities)

Agency: UNC Pembroke

Program Name: 2016 Connect NC Bond - Business School

Program ID: 12531

Fund Source	Authorization	Allocation
State Debt	46631-301	23,000,000
Total		23,000,000

Bond Funds Cash Flow	Original Cash Flow Estimate	Current Cash Flow Estimate	Actual Cash Flow through 12/31/2017
2016-2017	2,462,632	0	0
2017-2018	6,056,612	1,381,339	0
2018-2019	14,480,756	2,688,757	0
2019-2020	0	18,929,904	0
2020-2021	0	0	0
2021-2022	0	0	0
2022-2023	0	0	0
2023-2024	0	0	0
	23,000,000	23,000,000	0

Project ID: 15504

Name: School of Business Building

Description: This project received \$23,000,000 in appropriated funds from the approval of the NC Connect Bond. The project includes the demolition of an existing parking lot and the construction of an approximately 60,000 GSF new building that will support teaching and research, community outreach and professional partnerships in an integrated, state-of-the-art facility. The proposed building structure will offer a unique, flexible configuration that promotes interdisciplinary collaboration, student engagement and community connections. Additionally, the design will compliment and strengthen the UNCP Master Plan and will promote sustainable design features throughout the building. Full programing through advanced planning will be initially conducted.

SCO ID#: 16-15504-01A

Package: School of Business Building (ADV)

Description: Owner needs the services of an Architect for providing Advance Planning to include Sustainable Energy Programming services for the 60,000 SF School of Business Building project

Package Status: Under Design

Design Contract Type: Letter Agreement (Sustainable Energy Programming) Status: Active

Project Milestone	Original Schedule	Revised Schedule	Actual
Schematic Design Approved by SCO (Final Approval)	5/5/2017	8/23/2018	
Design Development Approved by SCO (Final Approval)	8/1/2017	11/19/2018	
Construction Documents Approved by SCO (Final Approval)	2/5/2018	5/24/2019	
Final Documents Approved by SCO (Final Approval)	2/5/2018	5/24/2019	
Approved for Bid	2/5/2018	5/24/2019	
Construction Start (Notice to Proceed)	2/26/2018	6/28/2019	
Estimated Completion (Contract Completion)	8/13/2019	12/11/2020	
Final Acceptance	8/13/2019	12/11/2020	
Final Approval - Last step of Closeout process	8/17/2020	12/21/2020	

Department: Educational Institutions (Universities)

Agency: UNC School Of The Arts

Program Name: 2016 Connect NC Bond - Old Library Renovation

Program ID: 12533

Fund Source	Authorization	Allocation
State Debt	46638-301	8,000,000
Total		8,000,000

Bond Funds Cash Flow	Baseline Cash Flow Estimate (New Baseline effective 9/1/2017)	Current Cash Flow Estimate	Actual Cash Flow through 12/31/2017
2016-2017	88,293	88,293	88,293
2017-2018	427,002	427,003	150,453
2018-2019	1,409,582	5,962,676	0
2019-2020	6,040,827	1,522,028	0
2020-2021	34,296	0	0
2021-2022	0	0	0
2022-2023	0	0	0
2023-2024	0	0	0
	8,000,000	8,000,000	238,746

Project ID: 15522

Name: Old Library Renovation

Description: This project will consist of the renovation of the old Library space at the Workplace building totaling 29,633 gross square feet. The space will be re-purposed to support a program that includes general offices, academic spaces and operational support. The existing space will require extensive renovation including changes to the floor plan to include offices, academic spaces and support spaces, new finishes and new mechanical systems to support the programmatic changes and to replace equipment past their useful life. Landscape and exterior enhancements and renovations will also be made to improve and increase building access and to create exterior performance and interactive spaces.

SCO ID#: 16-15522-01A

Package: Renovation of Old Library Space

Description: Renovation of the Old Library space within the Workplace Building to include interior renovation for repurposed spaces to support general offices, academic spaces, and operational support as well as landscape and exterior renovations to increase building access and create performance and interactive spaces.

Package Status: Under Design

Design Contract Type: Standard Design Contract **Status:** Active

Project Milestone	Baseline Schedule – 9/1/2017	Revised Schedule	Actual
Schematic Design Approved by SCO (Final Approval)	6/22/2017	6/22/2017	6/22/2017
Design Development Approved by SCO (Final Approval)	2/16/2018	12/5/2017	11/3/2017
Construction Documents Approved by SCO (Final Approval)	8/24/2018	8/7/2018	
Final Documents Approved by SCO (Final Approval)	8/24/2018	8/7/2018	
Approved for Bid	8/24/2018	8/7/2018	
Construction Start (Notice to Proceed)	11/5/2018	8/30/2018	
Estimated Completion (Contract Completion)	6/9/2020	8/19/2019	
Final Acceptance	6/9/2020	8/19/2019	
Final Approval - Last step of Closeout process	8/3/2021	10/12/2020	

Department: Educational Institutions (Universities)

Agency: UNC School Of The Arts

Program Name: 2016 Connect NC Bond - Performance Place Renovation

Program ID: 12534

Fund Source	Authorization	Allocation
State Debt	46638-302	2,900,000
Non-General Fund	46738-301	5,000,000
Total		7,900,000

Bond Funds Cash Flow	Baseline Cash Flow Estimate (New Baseline effective 9/1/2017)	Current Cash Flow Estimate	Actual Cash Flow through 12/31/2017
2016-2017	27,000	27,000	27,000
2017-2018	1,117,684	785,943	352,192
2018-2019	1,728,002	2,003,072	0
2019-2020	27,314	83,985	0
2020-2021	0	0	0
2021-2022	0	0	0
2022-2023	0	0	0
2023-2024	0	0	0
	2,900,000	2,900,000	379,192

Project ID: 15523

Name: Performance Place Renovation

Description: This project will include various repair and renovations to existing spaces within Performance Place, as well as additional improvements. The project will be split-funded with \$2,900,000 in appropriated funding and an additional \$5,000,000 in private funding. Some roofing and windows will be replaced as well as some improvements to mechanical systems. Additional improvements include a building expansion to support a larger lobby space and increase restroom capacity, complete lighting and dimming system replacements in both Freedman Theater and Catawba Theater, carpet replacement in Freedman Theater, and fixed and moveable seating replacement in all theater spaces. Finishes will be improved in the theater spaces as well as the lobby and common spaces. Other improvements include increased stage access, removal of risers located side stage and backstage, updates and expansion of line sets, replacement of the turn table in Freedman Theater, construction of a flexible proscenium for Freedman theater, improved acoustics in the theater spaces, additional sound equipment and renovation of all restrooms.

SCO ID#: 16-15523-01A

Package: Performance Place Renovation (PROGRAMMING)

Description: Owner needs the services of an Architect for providing Programming services to include Data Collection,

Package Status: Complete

Design Contract Type: Letter Agreement (Programming) Status: Complete

SCO ID#: 16-15523-02A

Package: Performance Place Renovation

Description: Renovations to existing spaces within Performance Place

Package Status: Under Design

Design Contract Type: Standard Design Contract (Fully Funded) Status: Active

SCO ID#: 16-15523-03A Commissioning Services

Project Milestone	Baseline Schedule -9/1/2017	Revised Schedule	Actual
Schematic Design Approved by SCO (Final Approval)	8/2/2017	8/2/2017	8/2/2017
Design Development Approved by SCO (Final Approval)	10/13/2017	1/30/2018	10/6/2017
Construction Documents Approved by SCO (Final Approval)	3/30/2018	7/17/2018	7/17/2018
Final Documents Approved by SCO (Final Approval)	3/30/2018	7/17/2018	
Approved for Bid	3/30/2018	7/17/2018	
Construction Start (Notice to Proceed)	5/21/2018	9/5/2018	
Estimated Completion (Contract Completion)	3/28/2019	7/15/2019	
Final Acceptance	3/28/2019	7/15/2019	
Final Approval - Last step of Closeout process	5/15/2020	9/3/2020	

Department: Educational Institutions (Universities)

Agency: UNC Wilmington

Program Name: 2016 Connect NC Bond - Allied Health/Human Services/Nursing Building

Program ID: 12532

Fund Source	Authorization	Allocation
State Debt	46628-301	66,000,000
Total		66,000,000

Bond Funds Cash Flow	Original Cash Flow Estimate	Current Cash Flow Estimate	Actual Cash Flow through 12/31/2017
2016-2017	3,092,622	321,450	321,450
2017-2018	19,262,872	4,351,880	1,389,072
2018-2019	32,490,932	29,386,968	0
2019-2020	11,153,574	31,939,702	0
2020-2021	0	0	0
2021-2022	0	0	0
2022-2023	0	0	0
2023-2024	0	0	0
	66,000,000	66,000,000	1,710,522

Project ID: 15505

Name: Allied Health Building

Description: In keeping with the goal of increased access to quality health care, especially in rural areas, UNCW has developed a health programs strategic plan that includes a Health and Human Services College with strong partnerships with practitioners and other UNC campuses. Two of the four facilities envisioned by that plan (Psychology Building, School of Nursing facility) have been funded. This third facility would house the new Health and Human Services College; the Center for Healthy Living; existing academic programs in Health and Applied Human Sciences and Social Work; support space for military-affiliated students; and related labs and classrooms that are critical to UNCW's ability to produce more health care professionals and expand services to the rural areas of the region. Available sites for the facility require specialized foundation work and work would include the extension of all primary infrastructure services to the site.

SCO ID#: 16-15505-01A

Package: Allied Health and Human Sciences Building (ADV)

Description: Owner needs the services of an Architect for providing Advance Planning to include Sustainable Energy

Package Status: Under Design

Design Contract Type: Letter Agreement (Sustainable Energy Programming) Status: Active

SCO ID#: 16-15505-02A

Package: Allied Health Building

Description: Building Package for Allied Health Building (145,000 GSF)

Package Status: Under Design

Design Contract Type: Standard Design Contract (Fully Funded) Status: Active

SCO ID#: 16-15505-03A Commissioning Services

Project Milestone	Original Schedule*	Revised Schedule*	Actual
Schematic Design Approved by SCO (Final Approval)	3/7/2017	Combined SD/DD	
Design Development Approved by SCO (Final Approval)	8/5/2017	1/15/2018	
Construction Documents Approved by SCO (Final Approval)	3/8/2018*	7/11/2018*	
Final Documents Approved by SCO (Final Approval)	3/8/2018*	7/11/2018*	
Approved for Bid	3/8/2018*	7/11/2018*	
Construction Start (Notice to Proceed)	4/25/2018*	8/23/2018*	
Estimated Completion (Contract Completion)	11/28/2019*	3/26/2020*	
Final Acceptance	11/28/2019	3/26/2020	
Final Approval - Last step of Closeout process	12/2/2020	6/5/2020	

*Schedule includes two phases beginning with Construction Documents. Dates shown are the latest (last) date reported within the listed work stage.

Department: Educational Institutions (Universities)

Agency: Western Carolina University

Program Name: 2016 Connect NC Bond - Science/STEM Building

Program ID: 12535

Fund Source	Authorization	Allocation
State Debt	46629-301	110,000,000
Total		110,000,000

Bond Funds Cash Flow	Baseline Cash Flow Estimate (New Baseline effective 9/1/2017)	Current Cash Flow Estimate	Actual Cash Flow through 12/31/2017
2016-2017	2,026,733	2,026,733	2,026,733
2017-2018	4,666,273	5,570,264	2,311,987
2018-2019	18,845,079	20,629,793	0
2019-2020	26,735,978	33,353,149	0
2020-2021	41,248,246	36,582,481	0
2021-2022	16,477,691	11,837,580	0
2022-2023	0	0	0
2023-2024	0	0	0
	110,000,000	110,000,000	4,338,721

Project ID: 15506

Name: Science/STEM Building

Description: This project would provide for a new 185,000 square-foot STEM building that will support teaching and research, community outreach, and professional partnerships in an integrated, state-of-the-art facility. The proposed building structure will offer a unique, flexible configuration that promotes interdisciplinary collaboration, student engagement, and community connections. Additionally, the project site design will implicitly strengthen the science quad and integrate site context. The scope will also include the demolition of the Natural Sciences Building and existing courtyard site elements, thereby expanding and redefining the built environment to reinforce the holistic learning environment program.

Project ID: 17051

Name: STEM Utility Extension - Memorial Dr.

Description:	To provide water line extension for new STEM building.		
Project ID:	18035		
Name:	Advance Utility Relocation - Niggli & NSB		
SCO ID#:	16-15506-01 and 01A		
Package:	Science/STEM Building (ADV)-Pre-Construction Contract		
Description:	Owner needs the services of an Architect for providing Advance Planning to include Sustainable Energy Programming services for the 185,000 SF Science/STEM Building project		
Package Status:	Under Design		
Design Contract Type:	Letter Agreement (Sustainable Energy Programming) Status: Active		
SCO ID#:	16-15506-02 Letter Agreement – Other Design Services		
SCO ID#:	16-15506-03 Letter Agreement – Other Design Services		
SCO ID#:	16-15506-04 Building Standard Design Agreement		
SCO ID#:	16-15506-05 Letter Agreement – Other Design Services		
SCO ID#:	16-15506-06 Letter Agreement – Other Design Services		
SCO ID#:	16-15506-07 Letter Agreement – Other Design Services		
SCO ID#:	16-15506-08 Letter Agreement – Special Inspections		
SCO ID#:	16-15506-09 Letter Agreement – Other Design Services		
SCO ID#:	16-15506-12 Letter Agreement – Commissioning Services		
SCO ID#:	16-15506-13 Letter Agreement – Other Design Services		
SCO ID#:	16-15506-14 Letter Agreement – Special Inspections		
SCO ID#:	16-15506-15 Letter Agreement – Other Design Services		
SCO ID#:	17-17051-01A		
Package:	Utility Extension - STEM Building		
Description:	Utility Extension - STEM Building Memorial Drive Improvements-routing water line		
Package Status:	Under Construction Nearing Completion		
Design Contract Type:	Standard Design Contract (Fully Funded) Status: Active		
SCO ID#:	17-17051-02 Letter Agreement – Archaeology Evaluation		

SCO ID#: 17-17051-03 Letter Agreement – Materials Testing

SCO ID#: 17-17051-04 Letter Agreement – Archaeology Evaluation (Additional Phase)

Project Milestone	Baseline Schedule - 9/1/2017*	Revised Schedule*	Actual
Schematic Design Approved by SCO (Final Approval)	7/19/2017	7/19/2017	7/19/2017
Design Development Approved by SCO (Final Approval)	11/17/2017	11/30/2017	11/21/2017
Construction Documents Approved by SCO (Final Approval)	6/22/2018	6/22/2018	
Final Documents Approved by SCO (Final Approval)	6/22/2018	6/22/2018	
Approved for Bid	6/22/2018	6/22/2018	
Construction Start (Notice to Proceed)	9/14/2018	9/14/2018	
Estimated Completion (Contract Completion)	12/1/2021	12/1/2021	
Final Acceptance	1/3/2022	1/3/2022	
Final Approval - Last step of Closeout process	5/2/2022	5/2/2022	

*"Utility Extension" and "Advance Utility Relocation" are included in the overall schedule, not established separately. They are being executed separately, however, prior to the full building's construction. Dates shown are for the building schedule, excluding site/demo.

Department: Educational Institutions (Universities)

Agency: Winston-Salem State University

Program Name: [40732-301] - Science and General Office Building

Program ID: 11797

Fund Source	Authorization	Allocation
General Fund	40732-301	3,312,000
State Debt	46632-301	50,000,000
Total		53,312,000

Bond Funds Cash Flow	Original Cash Flow Estimate	Current Cash Flow Estimate	Actual Cash Flow through 12/31/2017
2016-2017	1,602,083	971,674	971,674
2017-2018	23,962,299	3,357,233	288,629
2018-2019	24,435,618	29,865,864	0
2019-2020	0	15,805,229	0
2020-2021	0	0	0
2021-2022	0	0	0
2022-2023	0	0	0
2023-2024	0	0	0
	50,000,000	50,000,000	1,260,303

Project ID: 7236

Name: Sciences & General Office Building

Description: The new Winston Salem State University Sciences Building will consist of 103,000 SF, encompassing five floors. It will be located immediately adjacent to the existing W.B. Atkinson Science Building on the campus of WSSU. The existing science building is not large enough to handle the current needs, however, will continue to operate in conjunction with the proposed new science building. The new building will provide additional laboratories and support spaces, animal facilities, classrooms, conference rooms, student study areas, faculty offices, an I.T. data center, and a small 1,350 SF atrium lounge area to be serviced by mobile food carts. The new building will be used by multiple university science and health science programs, including Biological Sciences, Chemistry, Clinical Lab Science, and Forensic Science. Programs from off campus, such as the Biomedical Research Infrastructure Center, (BRIC), will also be incorporated, to help centralize WSSU science programs.

SCO ID#: 07-07236-01B

Package: Science & Office Building ***CMR Contract***

Description: This is the main Construction Manager-at-Risk Contract.

Package Status: Under Construction 0% Complete

Design Contract Type: Standard Design Contract (Fully Funded) Status: Active

SCO ID#: 07-07236-02 Letter Agreement – Commissioning Services

Project Milestone	Original Schedule	Revised Schedule	Actual
Schematic Design Approved by SCO (Final Approval)	Activities	occurred	
Design Development Approved by SCO (Final Approval)	prior to bond	passage and held	for funding
Construction Documents Approved by SCO (Final Approval)	4/19/2017	7/18/2017	9/1/2017
Final Documents Approved by SCO (Final Approval)	4/19/2017	10/12/2017	10/23/2017
Approved for Bid	4/19/2017	10/12/2017	10/23/2017
Construction Start (Notice to Proceed)	6/28/2017	12/11/2017	
Estimated Completion (Contract Completion)	4/1/2019	11/25/2019	
Final Acceptance	4/1/2019	11/25/2019	
Final Approval - Last step of Closeout process	3/30/2020	12/2/2019	